Georgia Gwinnett COLLEGE

B.S. Mathematics – Applied Math

2009/2010 Catalog

This plan is an unofficial document used for advisement only.

How to use this program plan: Write the grade for the course that satisfies each requirement. If the student takes a course that is chosen from a list of possible courses, circle the course number taken in addition to writing the grade.

Student Name _____

. Id No _____

S. Phone (w)_____ (h)_____

S. alt. email _____

Adviser_____

A. phone _____

A. email _____

General Education: (60 hours)

School Grade

Area A - Essential Skills: (9 hours) ("C" or better)

_____ _____ ENGL 1101 English Composition I
_____ _____ ENGL 1102 English Composition II
_____ _____ MATH 1113 Pre-calculus OR MATH 2200 Calculus I

Area B - Institutional Option (4 hours)

_____ _____ ITEC 1001 Introduction to Computing

Area C - Humanities/Fine Arts (6 hours)

_____ _____ *Choose one from the following:*
MUSC 1100/ARTS 1100/ENGL 2110/2100/FILM 1005
_____ _____ *Choose one from the following:*
RELN 1100/GEOG 1101/2000 level foreign lang

Area D – Natural Sciences, Math, Technology (11 hours)

_____ _____ CHEM 1211K ***and*** 1212K
_____ _____ *Choose one from the following:*
ITEC 2110 Digital Media
ITEC 2120 Introduction to Programming

Area E – Social Science (12 hours)

_____ _____ *Choose one sequence from the following:*
_____ _____ HIST 2111 ***and*** 2112 U.S. History I & II or
HIST 1111 ***and*** 1112 World History I & II or
HIST 1121 ***and*** 1122 Western Civ I & II
_____ _____ POLS 1101 American Government
_____ _____ *Choose one from the following:*
SOCI 1101/ANTH 1102/ECON 2100/PSYC 1102

Area F – Courses Related to the Program of Study (18 hours) ("C" or better)

_____ _____ MATH 2200 Calculus I (if not taken in Area A)
_____ _____ MATH 2210 Calculus II
_____ _____ MATH 2220 Calculus III
_____ _____ MATH 2400 Linear Algebra I
_____ _____ MATH 2500 Foundations of Mathematics
_____ _____ *Choose one if MATH 2200 is taken in Area A:*
MATH 2000/MATH 2300/MATH 2600
_____ _____ 1 hour each from Area A and D

Additional Requirements (3-4 hours)
Physical Education Requirement

_____ _____ Wellness (1 hour)
_____ _____ Additional Physical Education (2 hours)
_____ _____ GGC 1000 (if entered with less than 30 hours)

Program of Study: (60 hours) Grade of "C" or Better

(39 hours must be at the 3000-4000 level)

School Grade

Required Mathematics Courses (27 hours)

_____ _____ MATH 3100 Differential Equations I
_____ _____ MATH 3300 Probability and Statistics
_____ _____ MATH 3350 Applied Mathematics
_____ _____ MATH 3450 Numerical Methods I
_____ _____ MATH 3500 Abstract Algebra I
_____ _____ MATH 3700 Real Analysis I
_____ _____ MATH 4100 Differential Equations II
_____ _____ MATH 4600 Adv Mathematical Modeling
_____ _____ Choose one of the following:
MATH 4900/STEC 4500

Mathematics Elective Courses (9 hours)

_____ _____ MATH 3400 Linear Algebra II
_____ _____ MATH 4150 Complex Analysis
_____ _____ MATH 4250 Topology
_____ _____ MATH 4300 Probability & Statistics II
_____ _____ MATH 4500 Abstract Algebra II
_____ _____ MATH 4700 Real Analysis II

Required Courses in Applied Field (12 hrs)

_____ _____ Any level (8 hrs)
_____ _____ 3000/4000 level (4 hrs)

Other Required Courses (0-7 hours)

_____ _____ ITEC 2120 Introduction to Programming
(if not taken in Area D)
_____ _____ MATH 2600 Mathematical Modeling
(if not taken in Area F)

Additional Electives (6-13 hours)

_____ _____ _____
_____ _____ _____
_____ _____ _____
_____ _____ _____

Additional Requirements

___ Student Success courses may be required for entry in other courses.
___ Pass or Exempt Regents' Reading Test
___ Pass or Exempt Regents' Writing Test

Regents Requirements – The requirements for US and Georgia History and Constitution can be satisfied by transfer credit of HIST 2111 OR 2112 and POLS 1101 from a University System of Georgia institution. If not satisfied, the student should work with their adviser concerning exemption exams or can complete the courses.

__US Constitution __Georgia Constitution
__US History __ Georgia History